TECHNISCHER KUNDENDIENST

SERVICE HANDBUCH
SERVICE MANUAL

NORDMENDE
THOMSON TECHNOLOGY
VIDEO
COLLECTION

NORDMENDE SPECTRA

V 1000 IMC / 993.301 N
V 1202 SV / 993.306 N
V 1303 SV / 993.319 N
V 1404 SV / 993.324 N

Schaltungen
Circuit diagrams

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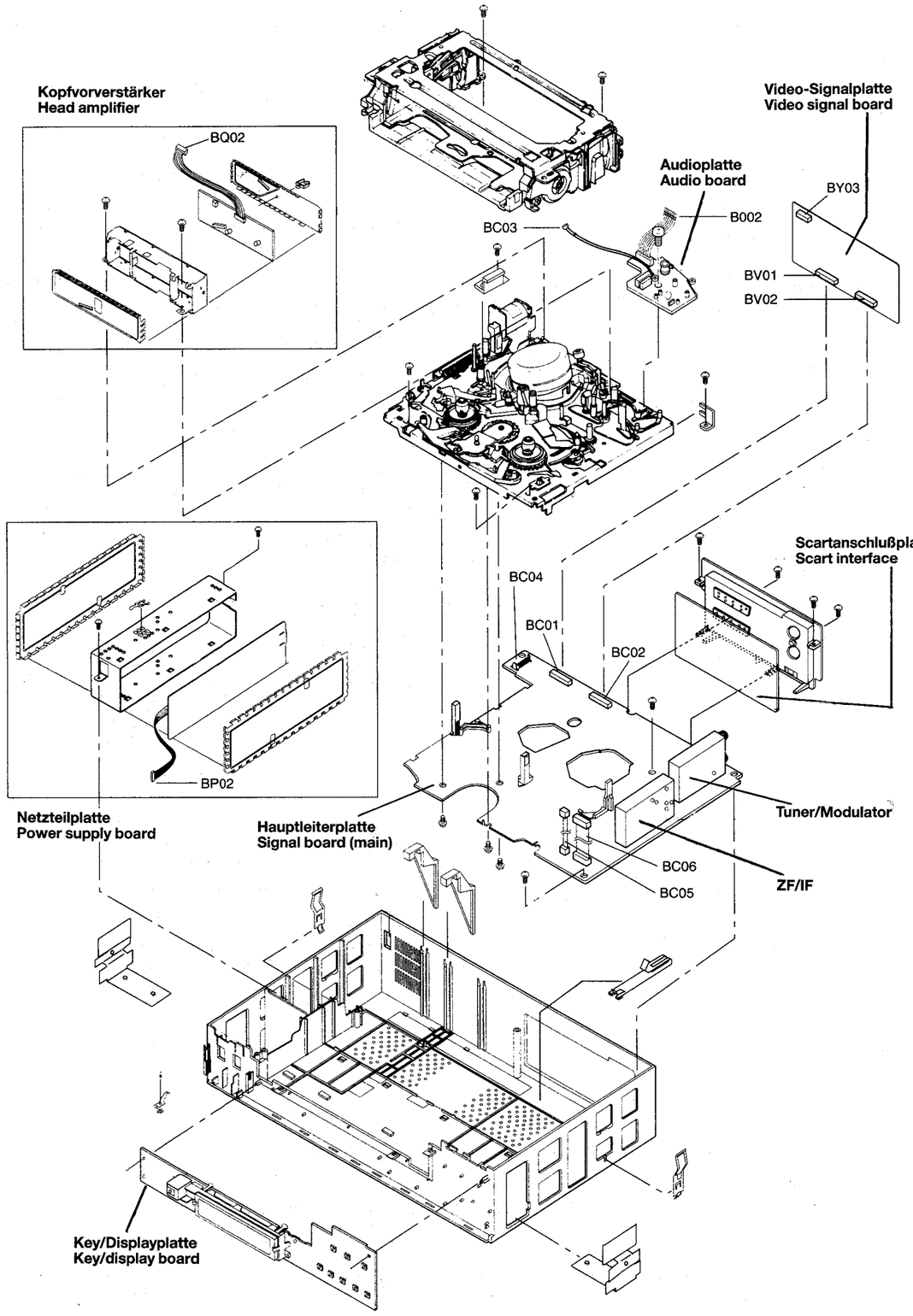
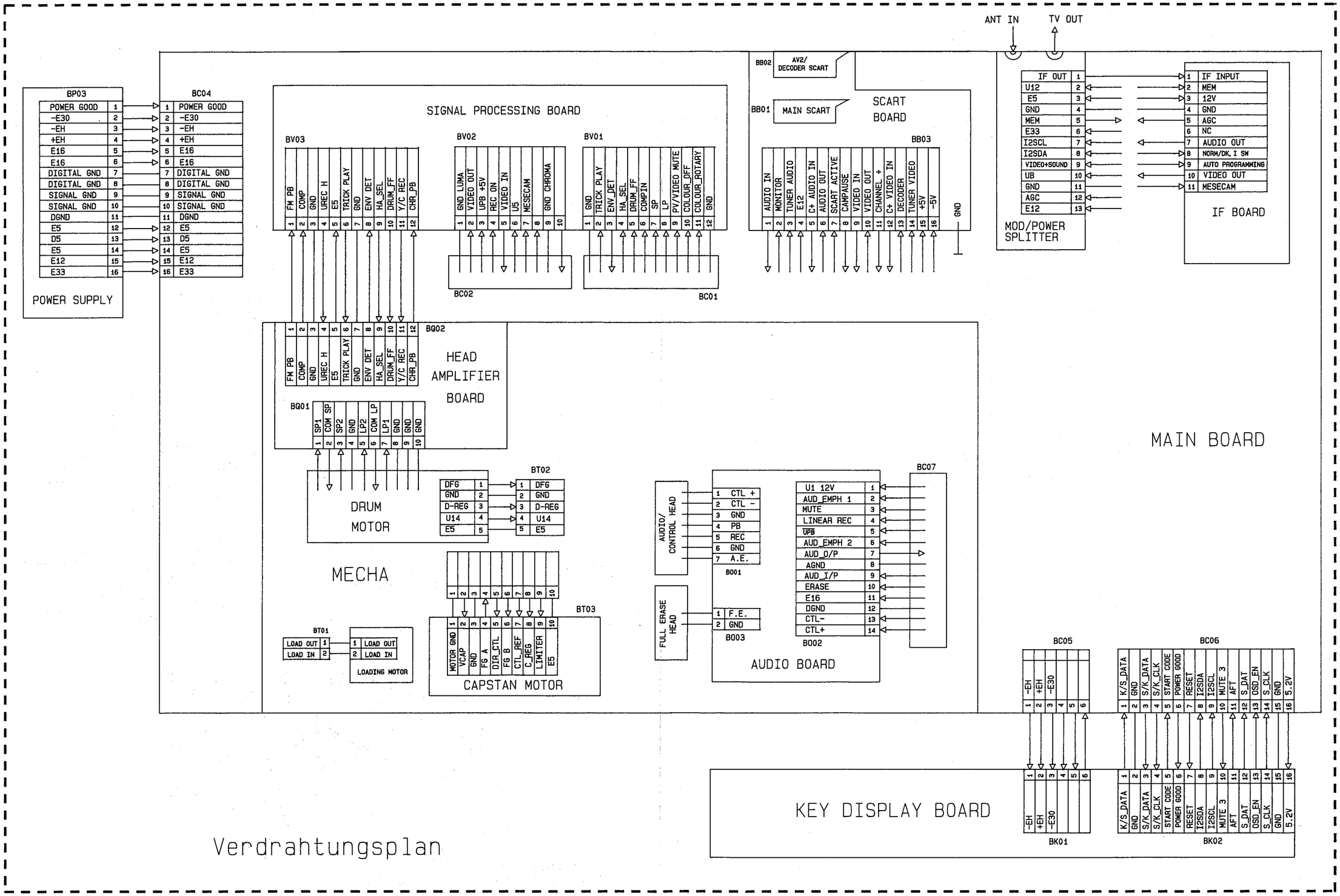
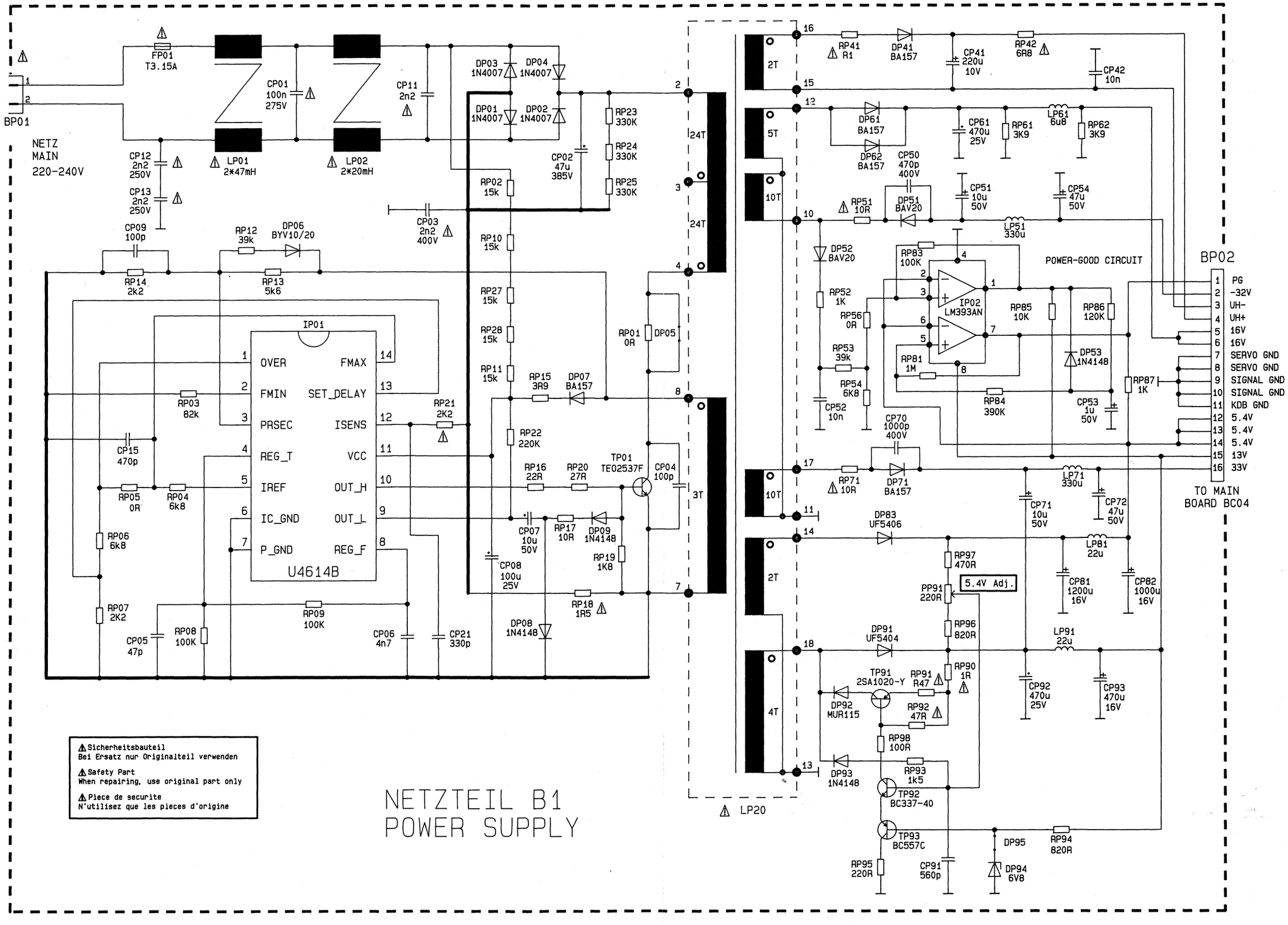
These instructions are for service dealers only · Subject to modification
101 588 00
T 12 - 9309

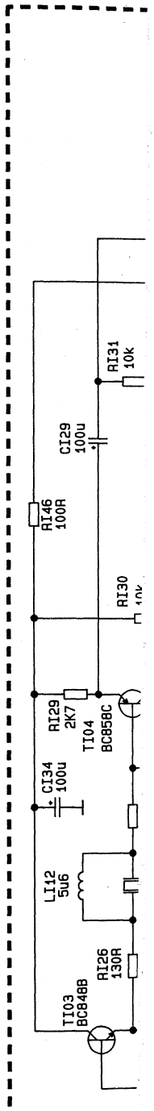
Lageplan der Leiterplatten
Circuit board location

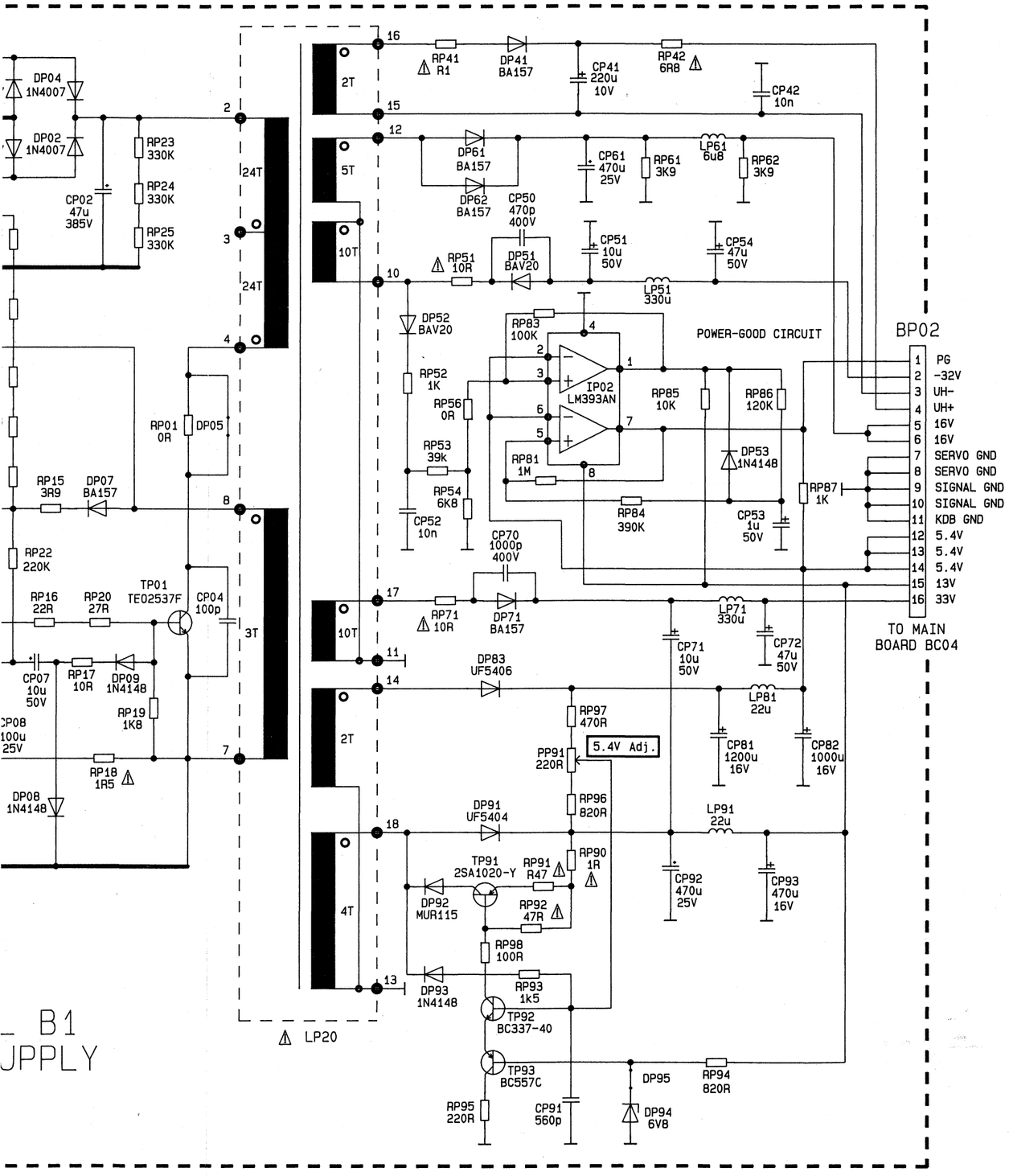


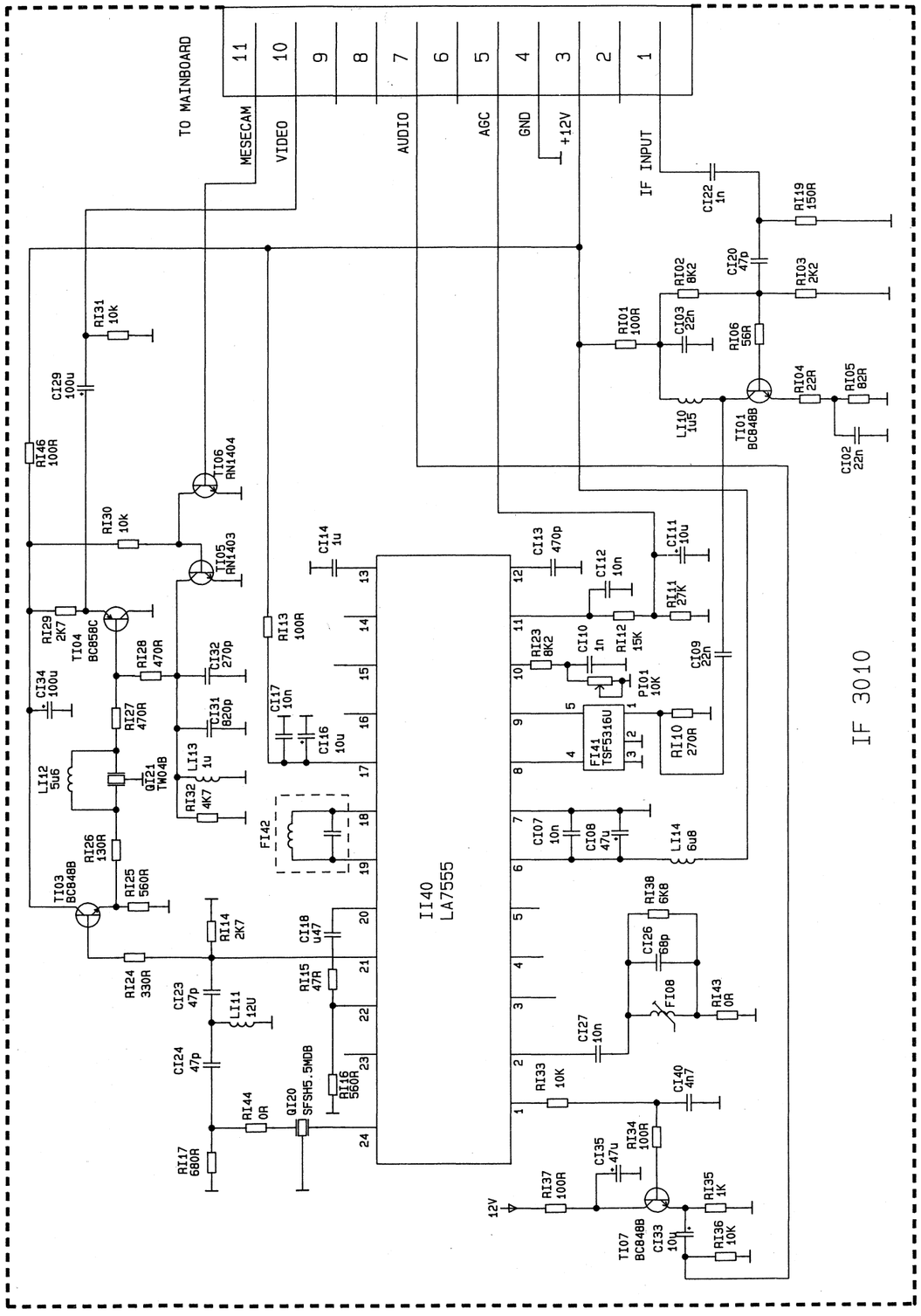
Verdrahtungsplan
Overall wiring diagram



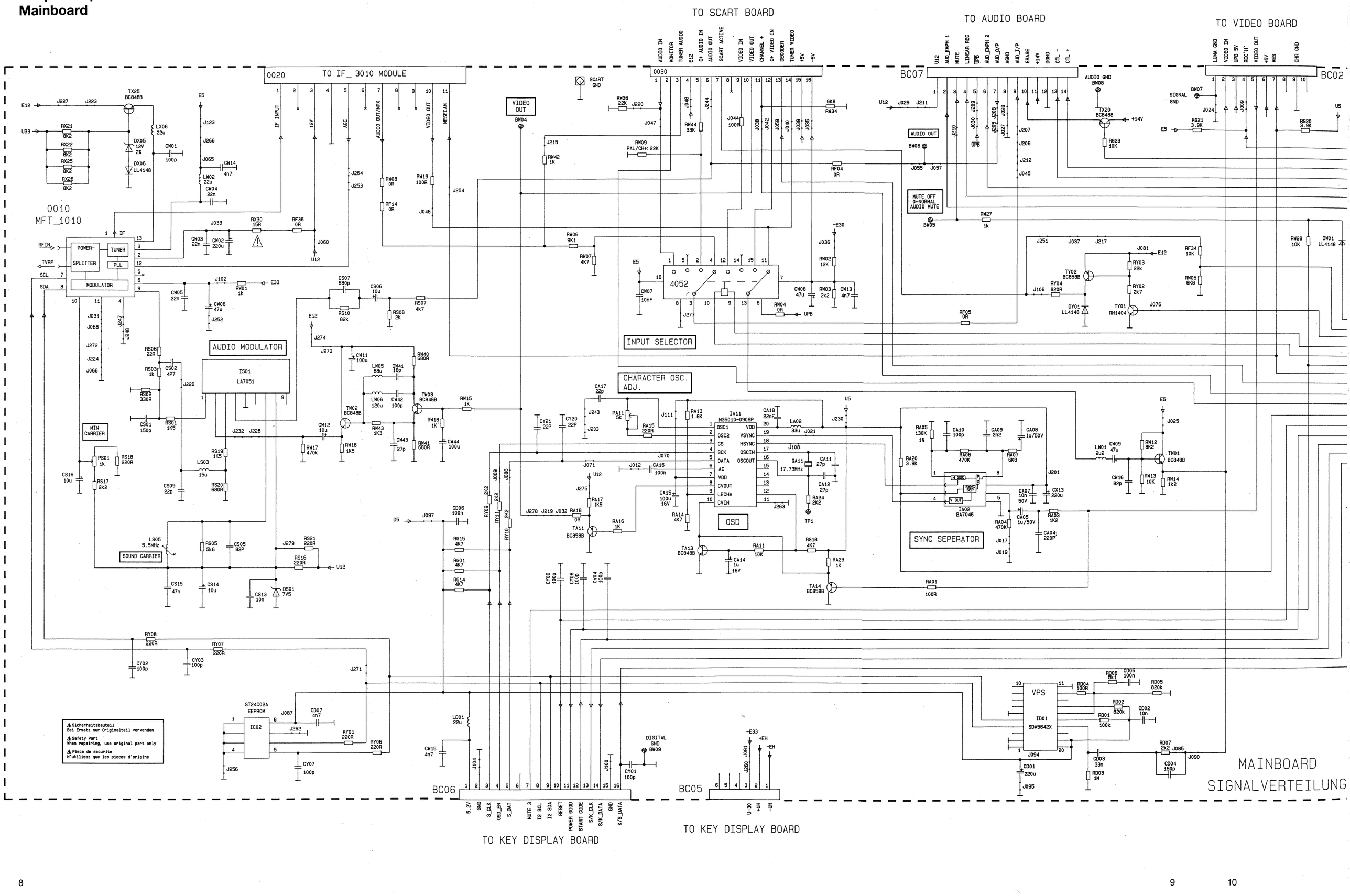

BP01
NETZ
MAIN
220-240V
FP01
T3.15A
CP01
100n
275V
CP11
2n2
LP01
2*47mH
LP02
2*20mH
CP12
2n2
250V
CP13
2n2
250V
DP03
1N4007
DP04
1N4007
DP01
1N4007
DP02
1N4007
CP02
47u
385V
RP23
330K
RP24
330K
RP25
330K
CP03
2n2
400V
RP02
15k
RP10
15k
RP27
15k
RP28
15k
RP11
15k
RP01
0R
DP05
RP15
3R9
DP07
BA157
RP22
220K
RP16
22R
RP20
27R
TP01
TE02537F
CP04
100p
CP07
10u
50V
RP17
10R
DP09
1N4148
RP19
1K8
CP08
100u
25V
RP18
1R5
DP08
1N4148
CP09
100p
RP12
39k
DP06
BYV10/20
RP14
2k2
RP13
5k6
IP01
OVER
FMAX
FMIN
SET_DELAY
PRSEC
ISENS
REG_T
VCC
IREF
OUT_H
IC_GND
OUT_L
P_GND
REG_F
U4614B
RP03
82k
RP21
2K2
CP15
470p
RP05
0R
RP04
6k8
RP06
6k8
RP07
2K2
RP09
100K
CP05
47p
RP08
100K
CP06
4n7
CP21
330p
2T
5T
10T
4T
24T
3T
RP41
R1
DP41
BA157
CP41
220u
10V
RP42
6R8
CP42
10n
DP61
BA157
DP62
BA157
CP61
470u
25V
RP61
3K9
LP61
6u8
RP62
3K9
CP50
470p
400V
RP51
10R
DP51
BAV20
CP51
10u
50V
CP54
47u
50V
LP51
330u
DP52
BAV20
RP83
100K
POWER-GOOD CIRCUIT
IP02
LM393AN
RP52
1K
RP56
0R
RP53
39k
RP54
6K8
CP52
10n
RP81
1M
RP85
10K
RP86
120K
DP53
1N4148
RP84
390K
CP53
1u
50V
RP87
1K
CP70
1000p
400V
RP71
10R
DP71
BA157
LP71
330u
CP71
10u
50V
CP72
47u
50V
DP83
UF5406
RP97
470R
PP91
220R
5.4V Adj.
LP81
22u
CP81
1200u
16V
CP82
1000u
16V
DP91
UF5404
RP96
820R
LP91
22u
TP91
2SA1020-Y
RP91
R47
RP90
1R
DP92
MUR115
RP92
47R
CP92
470u
25V
CP93
470u
16V
RP98
100R
DP93
1N4148
RP93
1k5
TP92
BC337-40
TP93
BC557C
DP95
RP94
820R
RP95
220R
CP91
560p
DP94
6V8
BP02
1 PG
2 -32V
3 UH-
4 UH+
5 16V
6 16V
7 SERVO GND
8 SERVO GND
9 SIGNAL GND
10 SIGNAL GND
11 KDB GND
12 5.4V
13 5.4V
14 5.4V
15 13V
16 33V
TO MAIN
BOARD BC04
LP20
⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
⚠ Safety Part
When repairing, use original part only
⚠ Piece de securite
N'utilisez que les pieces d'origine
NETZTEIL B1
POWER SUPPLY


RI31
10k
CI29
100u
RI46
100R
RI30
RI29
2K7
TI04
BC858C
CI34
100u
LI12
5u6
RI26
130R
TI03
BC848B


DP04 1N4007
DP02 1N4007
CP02 47u 385V
RP23 330K
RP24 330K
RP25 330K
RP01 0R
DP05
RP15 3R9
DP07 BA157
RP22 220K
RP16 22R
RP20 27R
TP01 TE02537F
CP04 100p
CP07 10u 50V
RP17 10R
DP09 1N4148
RP19 1K8
RP18 1R5
DP08 1N4148
CP08 100u 25V
RP41 R1
DP41 BA157
CP41 220u 10V
RP42 6R8
CP42 10n
DP61 BA157
DP62 BA157
CP61 470u 25V
RP61 3K9
LP61 6u8
RP62 3K9
CP50 470p 400V
RP51 10R
DP51 BAV20
CP51 10u 50V
CP54 47u 50V
LP51 330u
DP52 BAV20
RP83 100K
RP52 1K
RP56 0R
RP53 39k
RP54 6K8
CP52 10n
IP02 LM393AN
RP81 1M
RP85 10K
RP86 120K
DP53 1N4148
RP84 390K
CP53 1u 50V
RP87 1K
POWER-GOOD CIRCUIT
BP02
1 PG
2 -32V
3 UH-
4 UH+
5 16V
6 16V
7 SERVO GND
8 SERVO GND
9 SIGNAL GND
10 SIGNAL GND
11 KDB GND
12 5.4V
13 5.4V
14 5.4V
15 13V
16 33V
TO MAIN BOARD BC04
CP70 1000p 400V
RP71 10R
DP71 BA157
LP71 330u
CP71 10u 50V
CP72 47u 50V
DP83 UF5406
LP81 22u
CP81 1200u 16V
CP82 1000u 16V
RP97 470R
PP91 220R
5.4V Adj.
RP96 820R
DP91 UF5404
LP91 22u
TP91 2SA1020-Y
RP91 R47
RP90 1R
DP92 MUR115
RP92 47R
CP92 470u 25V
CP93 470u 16V
RP98 100R
DP93 1N4148
RP93 1k5
TP92 BC337-40
TP93 BC557C
DP95
RP94 820R
RP95 220R
CP91 560p
DP94 6V8
LP20
2T
5T
10T
3T
4T
24T
_ B1
JPPLY


TO MAINBOARD
MESECAM
VIDEO
AUDIO
AGC
GND
+12V
IF INPUT
CI22 1n
RI19 150R
RI02 8K2
CI20 47p
RI03 2K2
RI01 100R
CI03 22n
RI06 56R
LI10 1u5
TI01 BC848B
RI04 22R
RI05 82R
CI02 22n
RI31 10k
CI29 100u
RI46 100R
TI06 RN1404
RI30 10k
TI05 RN1403
CI14 1u
CI13 470p
CI12 10n
CI11 10u
RI29 2K7
TI04 BC858C
RI28 470R
CI32 270p
RI13 100R
RI11 27K
CI34 100u
RI27 470R
CI31 820p
CI17 10n
CI16 10u
LI12 5u6
QI21 TW04B
LI13 1u
RI32 4K7
FI42
RI26 130R
TI03 BC848B
RI25 560R
RI14 2K7
RI24 330R
CI23 47p
LI11 12U
CI24 47p
RI44 0R
RI17 680R
CI18 u47
RI15 47R
QI20 SFSH5.5MDB
RI16 560R
II40 LA7555
RI23 8K2
CI10 1n
RI12 15K
PI01 10K
FI41 TSF5316U
RI10 270R
CI09 22n
CI07 10n
CI08 47u
LI14 6u8
RI38 6K8
CI26 68p
FI08
RI43 0R
CI27 10n
RI33 10K
CI40 4n7
CI35 47u
RI34 100R
RI37 100R
RI35 1K
12V
TI07 BC848B
CI33 10u
RI36 10K
IF 3010

Hauptleiterplatte
Mainboard



MAINBOARD
SIGNALVERTEILUNG

TO SCART BOARD

TO AUDIO BOARD

TO VIDEO BOARD

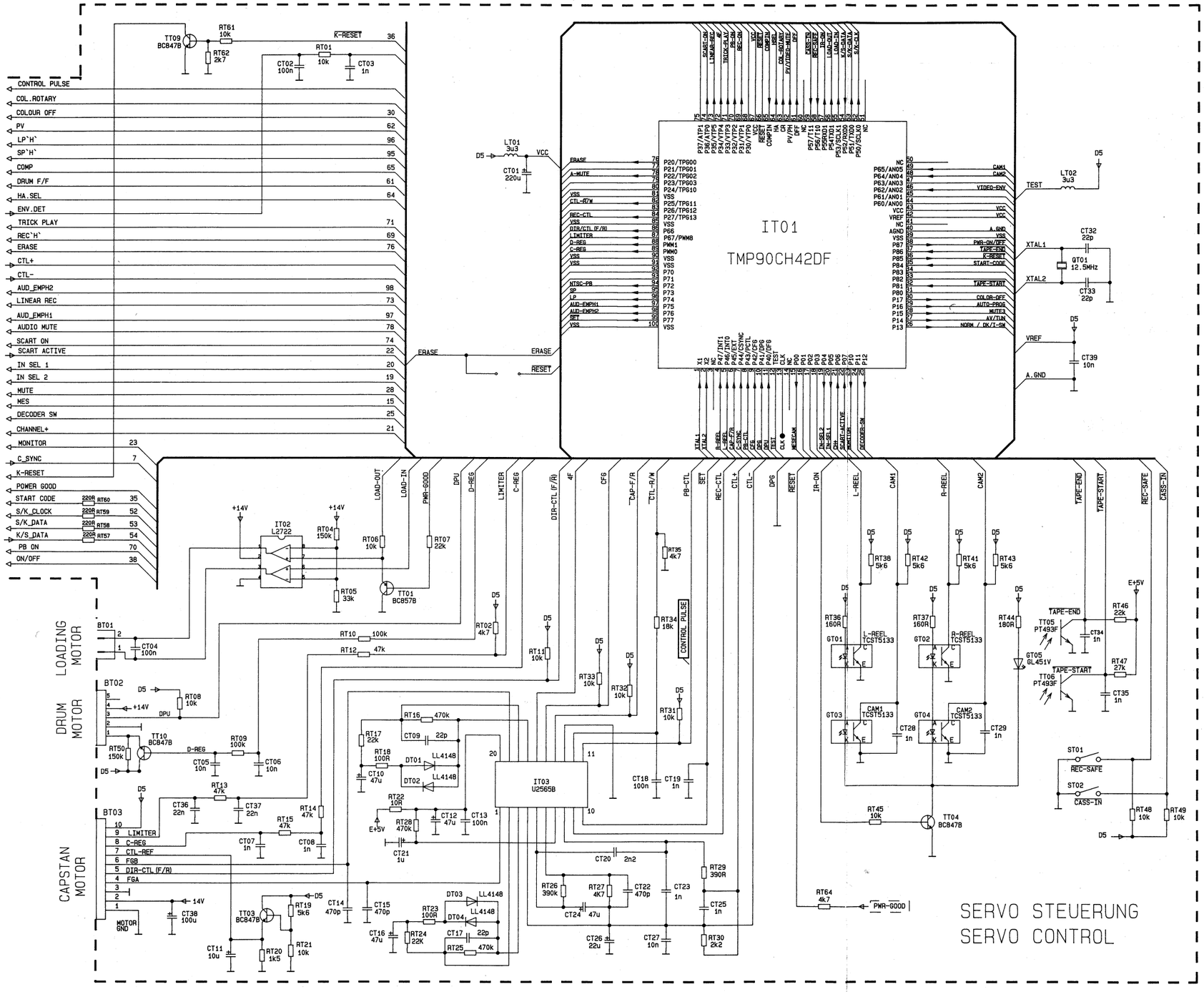
TO VIDEO BOARD

TO POWER BOARD

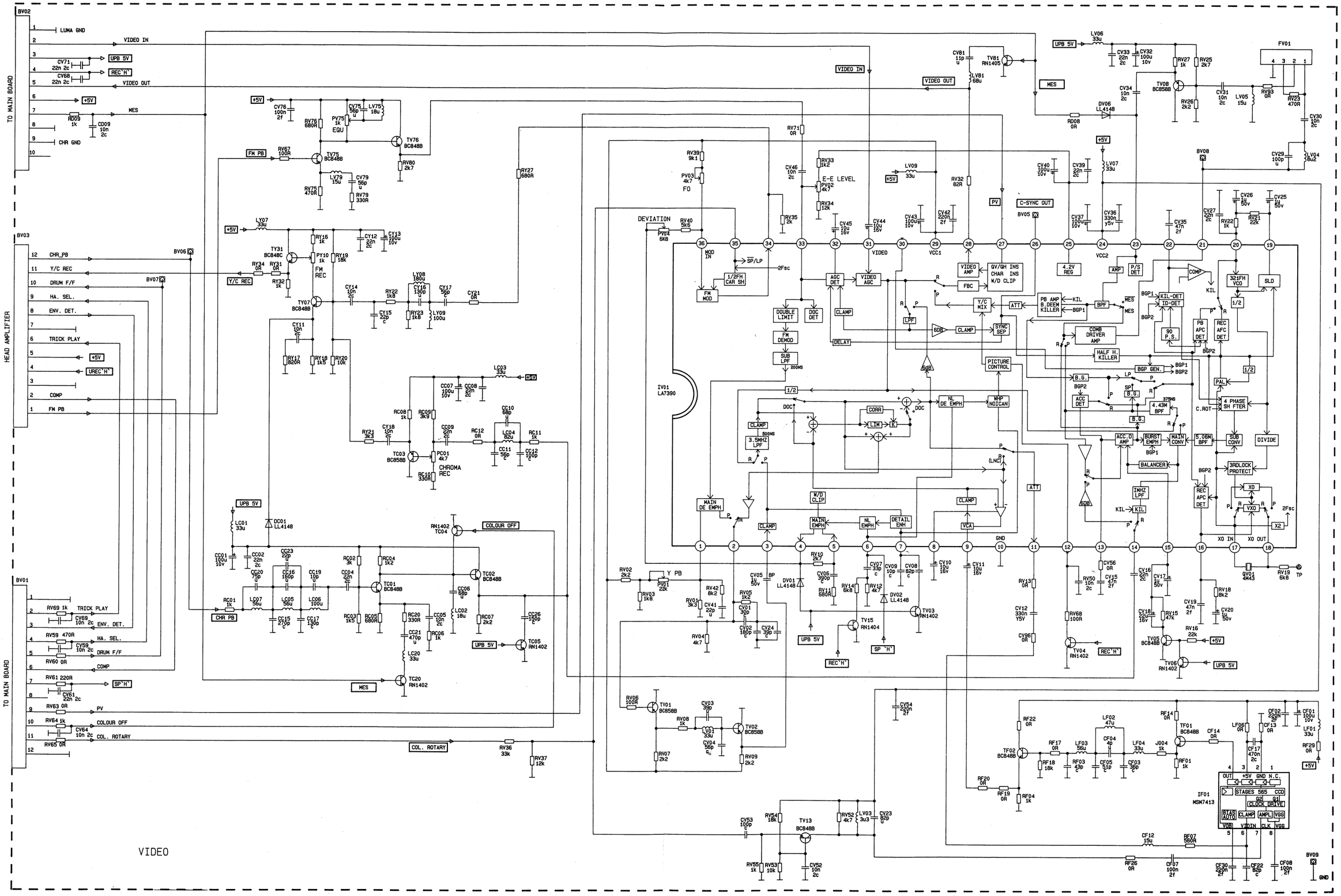
TO KEY DISPLAY BOARD

KEY DISPLAY BOARD

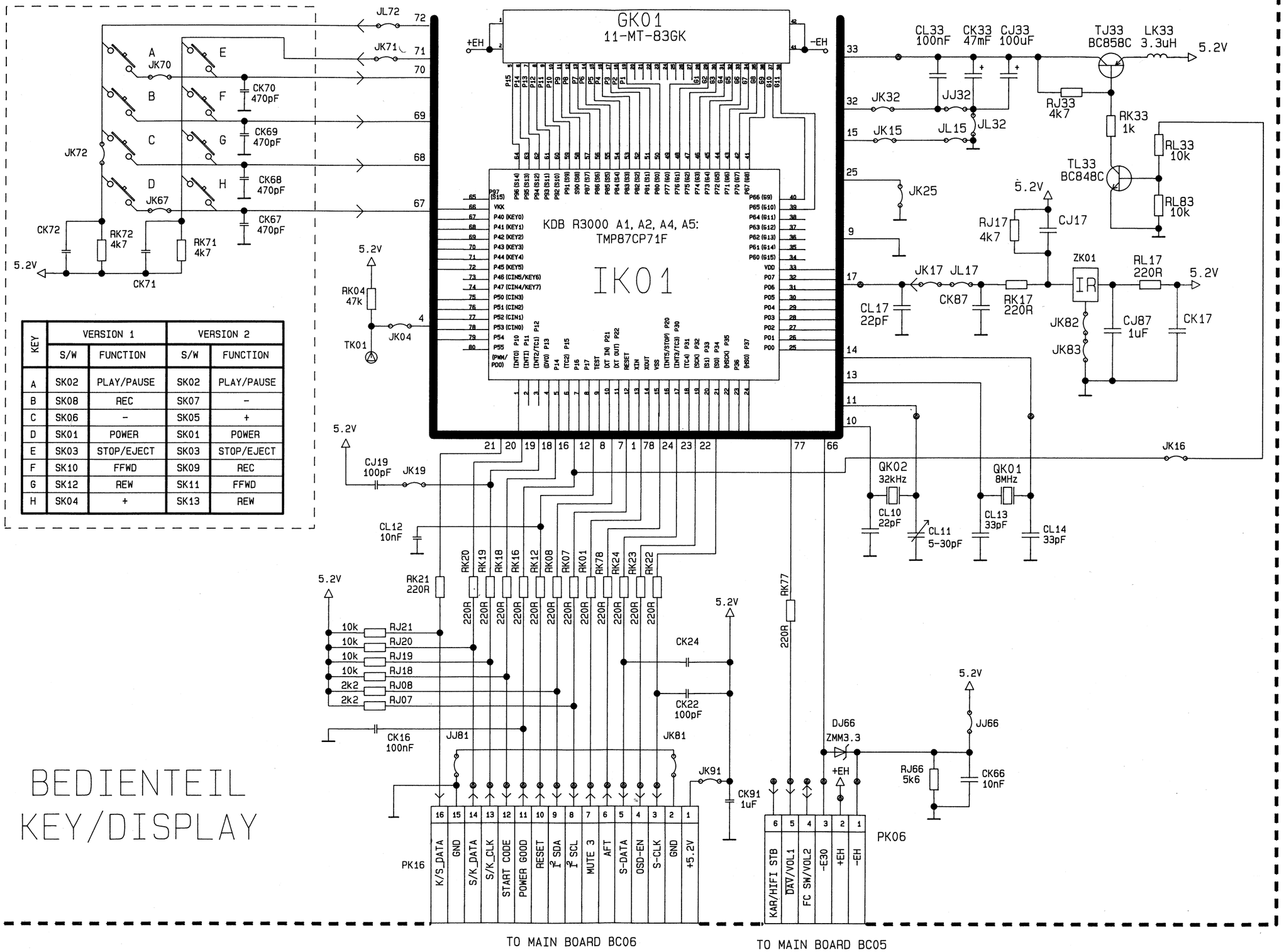
Mechaniksteuerung/Servo
Mechacon/Servo



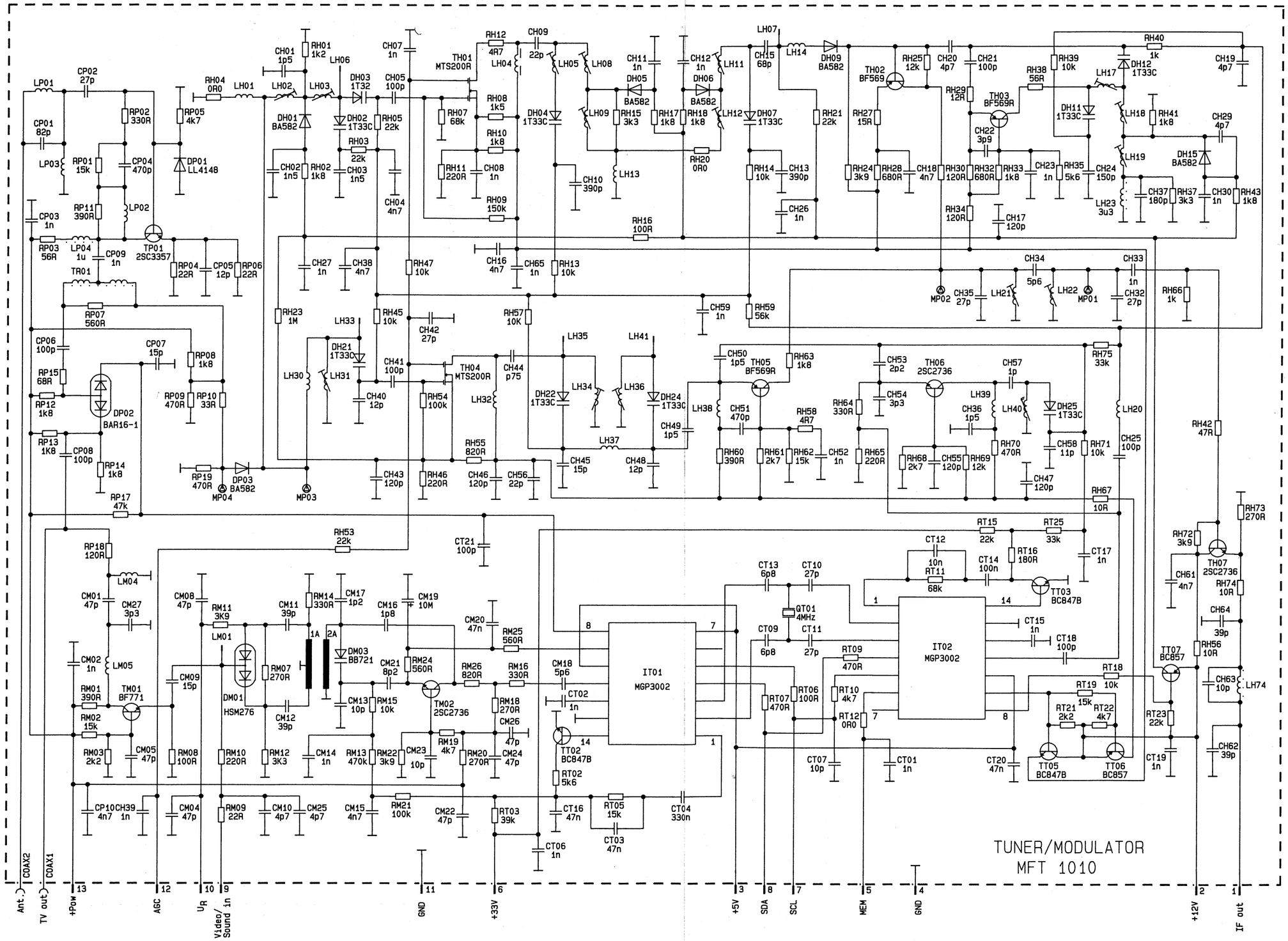
Videosignalschaltung
Video signal circuit



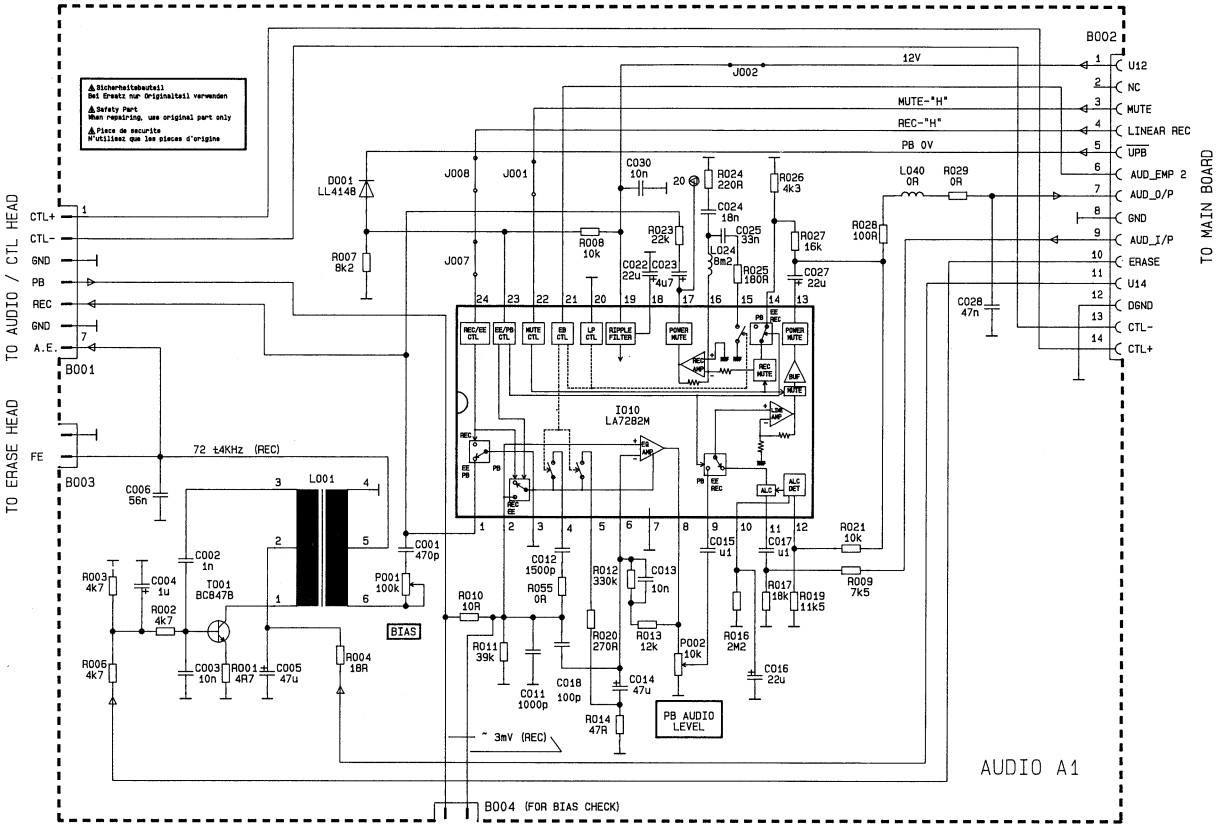
KEY	VERSION 1		VERSION 2	
	S/W	FUNCTION	S/W	FUNCTION
A	SK02	PLAY/PAUSE	SK02	PLAY/PAUSE
B	SK08	REC	SK07	-
C	SK06	-	SK05	+
D	SK01	POWER	SK01	POWER
E	SK03	STOP/EJECT	SK03	STOP/EJECT
F	SK10	FFWD	SK09	REC
G	SK12	REW	SK11	FFWD
H	SK04	+	SK13	REW



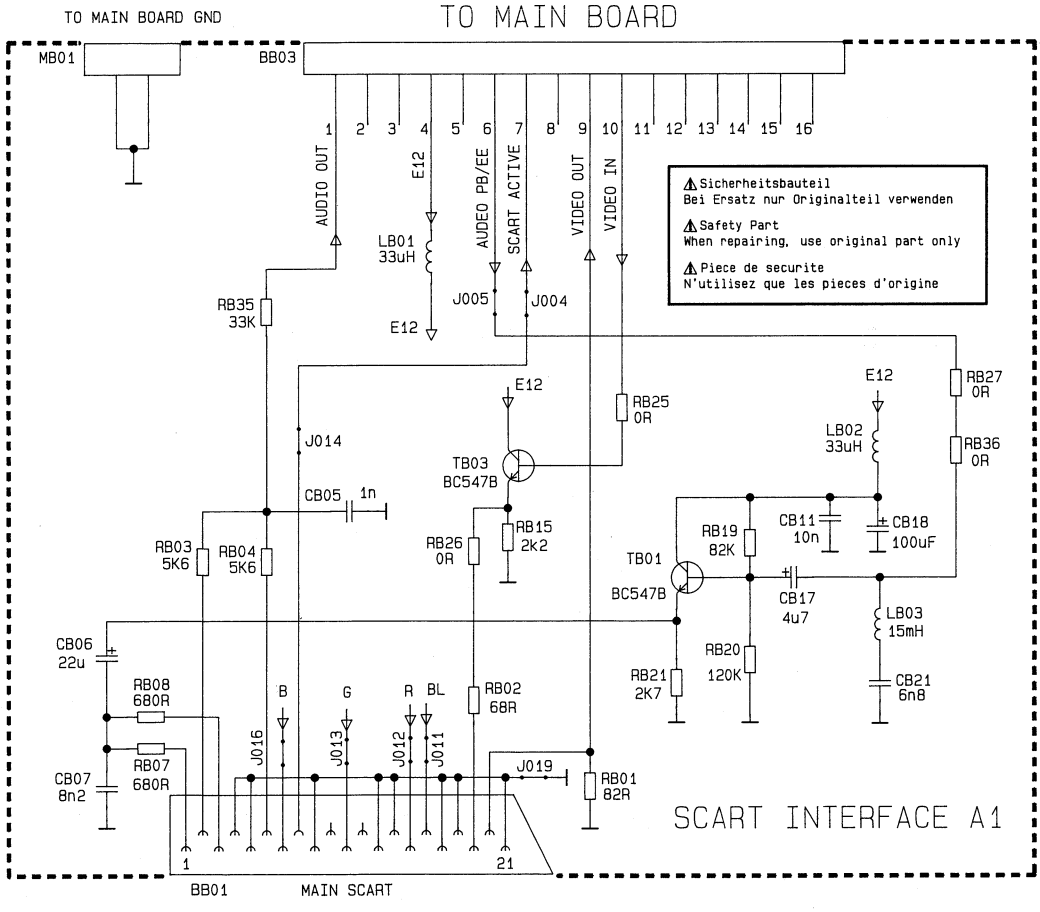
Tuner/Modulator



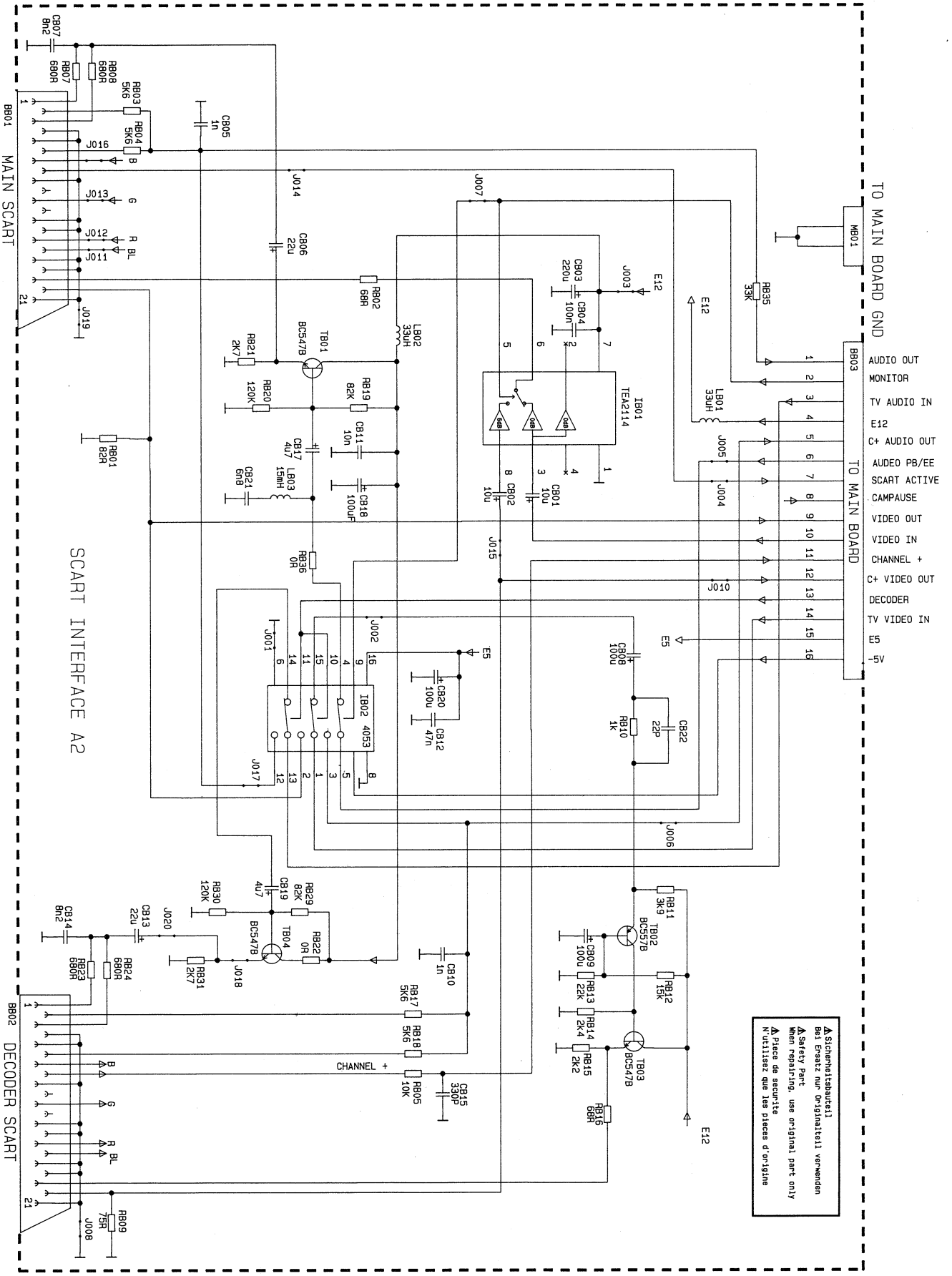
Audio



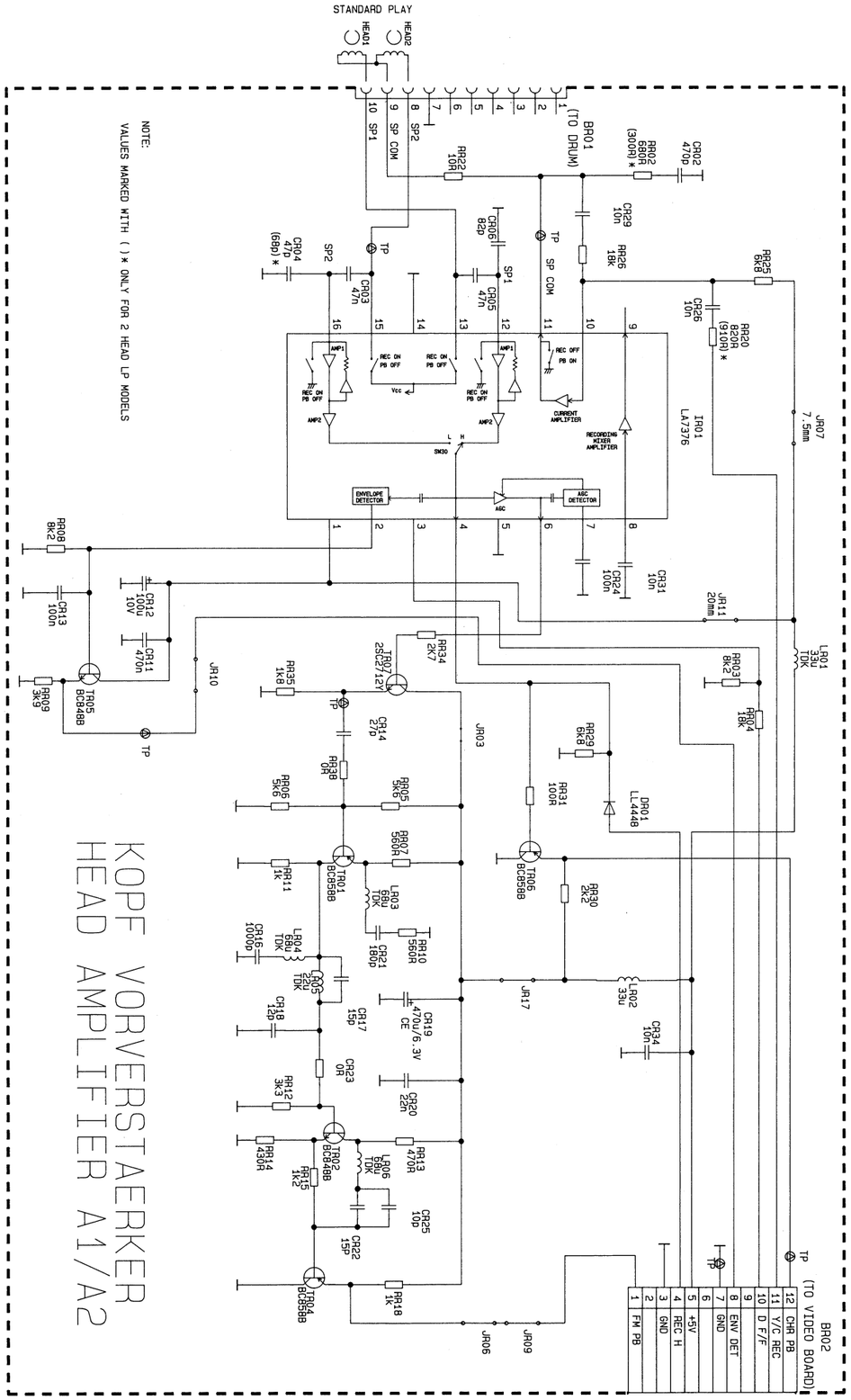
Scartanschlußplatte A 1
Scart interface A 1



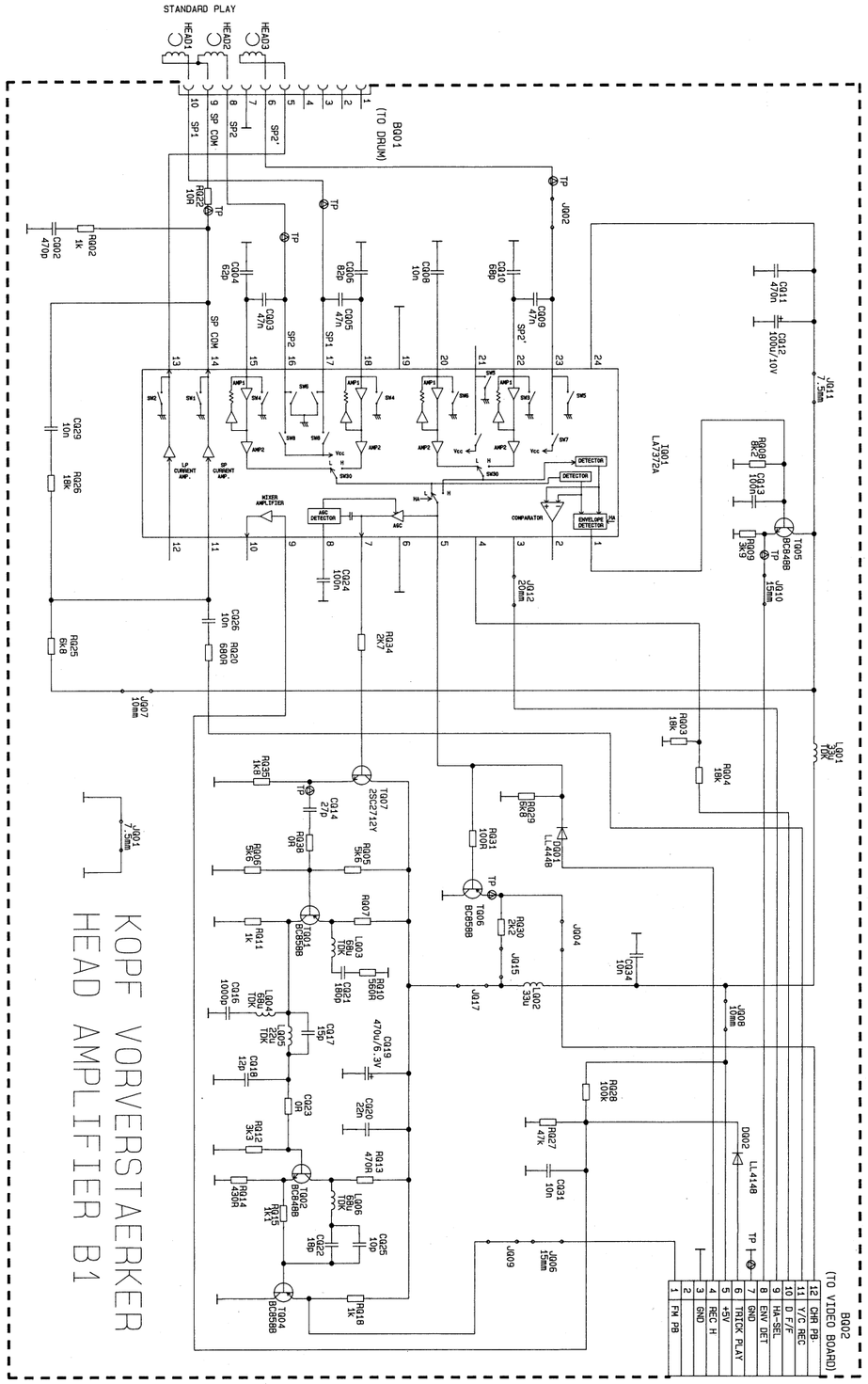
Scartanschlußplatte A 2
Scart interface A 2



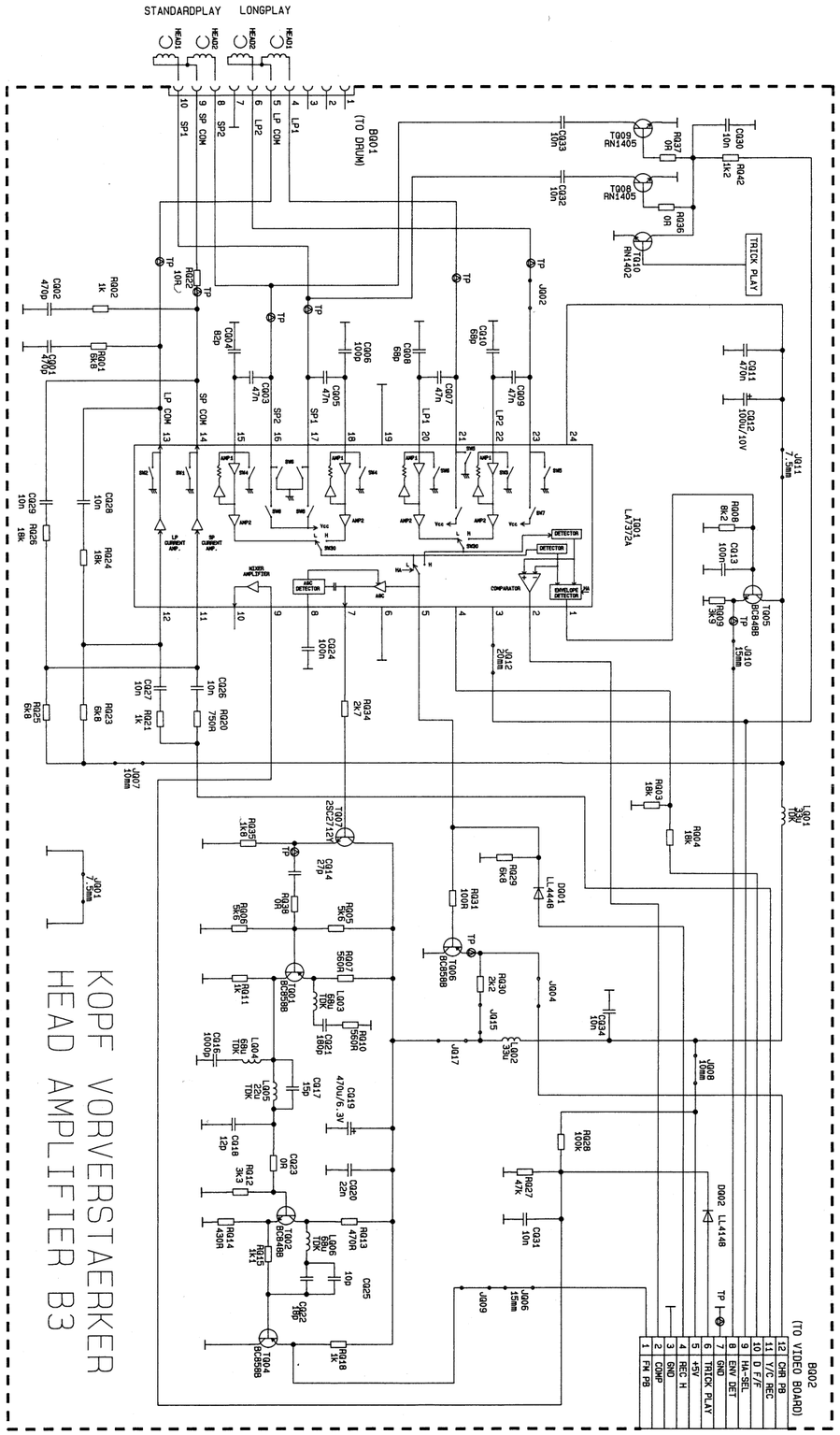
Kopfvorverstärker (2 Köpfe SP und LP)
Head amplifier (2 heads SP and LP)



Kopfvorverstärker (3 Köpfe)
Head amplifier (3 heads)



Kopfvorverstärker (4 Köpfe)
Head amplifier (4 heads)



Kopftrommelmotor
Drum motor